

**METHOD AND SYSTEM FOR ARRANGING TEMPORARY  
PROJECT LABOR USING THE INTERNET**

**Field of the Invention**

The present invention relates to the field of electronic commerce, and, more particularly, to a method and system for arranging temporary project labor  
5 using the Internet.

**Background of the Invention**

The growth of the Internet in recent years has resulted in a tremendous increase in the amount of  
10 information and services that Internet users may obtain from their own homes. For example, users may now comparison shop for and purchase electronics, vehicles, and a host of other products "on-line" without ever leaving their homes.

15 Another example where the Internet is providing greater convenience to users is in the area of employment. Because of the Internet, information may be instantaneously transferred between employer and employee regardless of their respective locations. As  
20 a result, stay-at-home mothers, people who live in remote locations, and those who simply desire extra work in their spare time are finding it much easier to obtain part-time or "freelance" employment over the Internet.

For example, Internet sites such as elance.com allow employers to post projects for which prospective laborers may bid. Prospective laborers may also post their résumés on the site for employers to  
5 search when they need a particular project completed. The prospective laborers may also pay an additional fee to the site provider to have certain of their credentials independently verified. The projects may include writing, translation, programming, tutoring,  
10 etc. Additionally, elance.com offers an optional billing and payment system to facilitate payment between employers and prospective laborers.

While Internet sites such as elance.com have made hiring temporary contract laborers easier, such  
15 sites are set up to match prospective laborers already having certain training with projects within their area of training. Yet, many employers may have projects that require specific training which only the employer can provide. Further, it may be desirable to make sure  
20 that the prospective laborers are willing and able to complete such training before expending the time and money necessary to contract with the prospective laborer.

25 **Summary of the Invention**

In view of the foregoing background, it is therefore an object of the invention to provide a method and system for arranging temporary project labor using the Internet that allows employers to make  
30 training available to project laborers prior to forming labor relations.

This and other objects, features, and advantages in accordance with the present invention are provided by a method for arranging temporary project  
35 labor using the Internet including posting a project

description on the Internet, receiving a request via the Internet from a prospective laborer to be considered for the project, and making project training available to the prospective laborer, for example, via the Internet. The prospective laborer may be required to demonstrate receipt of the project training via the Internet to be a contract laborer. Additionally, a project package may be transferred to the contract laborer via the Internet, a completed project package may be received from the contract laborer via the Internet, and an electronic payment may be authorized on behalf of the contract laborer via the Internet and based upon receiving the completed project package.

More specifically, the prospective laborer may be required to take an examination to demonstrate mastery of the project training. The method may also include bypassing requiring of a prospective laborer to demonstrate receipt of the project training if the prospective laborer has previously been a contract laborer. Additionally, the method may include verifying that the completed project package complies with quality standards, and the electronic payment may be authorized after verifying that the completed project package complies with the quality standards. The request may be denied if a prior completed project package from the prospective laborer did not comply with the quality standards.

Furthermore, the project description may be re-posted on the Internet if the completed project package is not received from the contract laborer within a predetermined period. The project description may include laborer qualifications, and the method may further include verifying that the prospective laborer meets the laborer qualifications to be a contract laborer. The laborer qualifications may include at

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also re-post the project description on the Internet if the completed project package is not received from the contract laborer within a predetermined period.

Furthermore, the host system may authorize an  
5 electronic payment on behalf of the contract laborer via the Internet and based upon receiving the completed project package. The electronic payment may be authorized after the host system verifies that the completed project package complies with the quality  
10 standards, for example.

The project description may also include laborer qualifications, and the host system may verify that the prospective laborer meets the laborer  
15 qualifications to be a contract laborer. The laborer qualifications may include at least one of a minimum age, citizenship, lack of a criminal record, having a valid taxpayer identification number, and having a valid social security number. Further, the project may include at least one of writing, editing, translating,  
20 drafting, data entry, image recognition, image manipulation, and image accuracy transference.

#### **Brief Description of the Drawings**

FIG. 1 is a schematic block diagram of a  
25 system for arranging temporary project labor using the Internet according to the invention.

FIG. 2 is a flow diagram illustrating a method according to the invention for arranging temporary project labor using the Internet.

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#### **Detailed Description of the Preferred Embodiments**

The present invention will now be described more fully hereinafter with reference to the accompanying drawings, in which preferred embodiments  
35 of the invention are shown. This invention may,

however, be embodied in many different forms and should not be construed as limited to the embodiments set forth herein. Rather, these embodiments are provided so that this disclosure will be thorough and complete, and will fully convey the scope of the invention to those skilled in the art.

Referring to FIG. 1, the general architecture of a system **30** for arranging temporary project labor using the Internet is now described. The system **30** includes an employer's host system **31** connected via an Internet service provider (ISP) **32** (e.g., AT&T or UUNET) to an Internet backbone **34**. The Internet backbone **34** is made up of multiple computer networks interconnected with high speed data lines for transmitting and receiving data, as will be readily appreciated by those skilled in the art.

Computers **35a-35n** may also be connected to the Internet backbone **34** via ISPs **37a-37n**. The computers **35a-35n** may be individual home computers, for example, that may be located anywhere throughout the world where Internet access is available. The computers **35** allow prospective laborers to access the host system **31** and view projects that the employer needs completed, as will be described further below. Furthermore, a bank **39** used by the employer may also be connected to the Internet backbone **34** via an ISP **40** which allows the employer to electronically authorize payment to be deposited in banks **41a-41n** used by contract laborers upon completion of projects, as will also be described further below. It should be noted that while multiple ISPs have been illustrated in FIG. 1, multiple computers or computer systems may share a common ISP or may themselves be an ISP, as will be appreciated by those of skill in the art.

5 project description on the Internet, at Block 11. For  
example, the project description may be posted on the  
employer's web site maintained on the host system 31.  
The present invention is particularly well suited for  
discrete projects for which the employer only requires  
10 temporary laborers, such as writing, editing,  
translating, drafting, data entry, image recognition,  
image manipulation, and image accuracy transference.  
Of course, those of skill in the art will appreciate  
that this list is in no way exhaustive and that many  
15 other types of projects may be included within the  
scope of the present invention.

By way of example, the Harris Corporation, assignee of the present invention, provides a geographical modeling service RealSite™ which produces geospatially accurate, three-dimensional (3D) urban models. Multiple images of a city or other geographical location are acquired and a 3D model may be rendered from these images. The models may be used for applications such as urban planning or even planning military missions, for example. Yet, before computer software may be used to render the 3D images, human operators typically must physically delineate boundaries within the images (i.e., perform image recognition), such as rooftops of buildings. This process can be very labor intensive and, for large geographical areas, may require a long time to complete if only a few operators are available. Another similar application may be using registered imagery to bring inaccurate line maps into proper absolute positioning within a global datum (i.e., image accuracy

transference), as will be understood by those of skill in the art.

The present invention provides for quick and economical scaling of labor to meet the demands of such labor intensive projects. While the above described image recognition is not particularly difficult, it does require that the operator receive specific training for using the delineation software. Accordingly, it would not be possible using existing freelance Internet sites to ensure that a prospective laborer has received the requisite project training before offering the prospective laborer the project.

According to the present invention, a prospective laborer logs on to the employer's Internet site via the Internet using the computer **35a** to view the project description. Of course, multiple project descriptions spanning single or multiple disciplines may be listed on the employer's Internet site in accordance with the present invention, although a single project is referenced herein for clarity of understanding. The prospective laborer may then send a request via the Internet to be considered for the project (Block **12**) which is received by the host system **31**. The host system **31** may then determine if the prospective laborer has previously been a contract laborer for the employer on similar projects based upon information in a database in the host system of prior contract laborers, for example, at Block **13**. If so, the prospective laborer has previously demonstrated that he meets predetermined qualifications and that he has previously received project training (discussed further below). Accordingly, the steps illustrated at Blocks **14-16** may be bypassed.

If the qualifications have been met, project training stored on the host system **31** may then be made available to the prospective laborer, at Block **15**. For example, the project training may be made available via the Internet and may include text documents, interactive demonstrations, etc. that the prospective laborer downloads and views on the computer **35**. The prospective laborer may then be required by the host system **31** to demonstrate that he has received the project training via the Internet. For example, the prospective laborer may be required to take an examination to demonstrate mastery of the project training. The examination is preferably automated and taken over the Internet to minimize the time required by the employer in verifying training.

Using the above example, a prospective laborer may be required to view a short demonstration on how to delineate boundaries and then given an actual image with boundaries to delineate. The host system **31**

may then "grade" the examination to see if the boundaries have been correctly delineated. If not, the request may be denied and a next request from another prospective laborer may be received. Other

5 alternatives may include requiring the prospective laborer to view a sequence of training slides and, upon completion, providing the prospective laborer a code to demonstrate that the training has been received. Of course, other alternatives for verifying training may

10 also be used within the scope of the present invention, as will be appreciated by those of skill in the art.

If the prospective laborer has received the training, the prospective laborer may then become a contract laborer, and a project package stored on the

15 host system **31** may be transmitted to the contract laborer via the Internet (Block **17**). The job description is then preferably removed from the employer's Internet site by the host system **31** for a predetermined period sufficient to allow the contract

20 laborer to complete the project. If a completed project package is not received from the contract laborer via the Internet at the host system **31** within the predetermined period (Block **18**), the project description may be re-posted on the employer's Internet

25 site by the host system **31** for other prospective laborers to view.

The method may further include verifying that the completed project package complies with quality standards corresponding to the project, at Block **19**.

30 The quality control standards may either be checked manually or, in certain applications, may be checked by the host system **31**. Using the above example, when an image delineation project is posted on the employer's Internet site, the employee posting the project may

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It will be appreciated by those of skill in the art that the system and method of the present invention therefore allow very rapid scaling for labor intensive projects that require a quick turn-around.

delineation, it would take 123 full time employees to complete the task in such time, assuming they started immediately and worked 40 hours per week. However, it may not be practicable to staff this many full-time employees for a single task, particularly when these employees must be paid benefits and certain minimum company salaries. In fact, it is preferable that the contract laborers not be made full-time or salaried employees of the employer for such reasons, although the contract laborers may be made employees according to the invention, if desired. The difficulties of maintaining such a staff become particularly acute when the volume of orders that the employer processes are highly variable.

Of course, many other modifications and other  
35 embodiments of the invention will come to the mind of

one skilled in the art having the benefit of the teachings presented in the foregoing descriptions and the associated drawings. Therefore, it is to be understood that the invention is not to be limited to 5 the specific embodiments disclosed, and that other modifications and embodiments are intended to be included within the scope of the appended claims.

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